

Genesys Avionics Suite

Cockpit Avionics Modernization for Helicopter Aircraft

Experience a customizable, future-proof cockpit upgrade suite that expands existing aircraft operational capabilities with higher performance and reliability while reducing costs.



A Complete Cockpit System Upgrade for Special Mission Aircraft

The Genesys Avionics Suite™ provides renewed operational life to aircraft through a complete, comprehensive, and affordable cockpit system upgrade to existing fixed-wing and helicopter aircraft.

PATRIOT DEFENSE INC.

Patriot Defense is an exclusive partner of XP Services, the preferred Authorized Integrator/Reseller and Air Worthiness Certifier for the Genesys cockpit on a UH-60.



Fully Integrated digital cockpit with Autopilot and Patented open system architecture

Get In Touch

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PATRIOT
DEFENSE INC.

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ADVANCED AVIONICS SUITE TO COMMONIZE YOUR ENTIRE FLEET



The Genesys cockpit is proven in over 200 different platforms, large and small, and delivers a fully integrated cockpit that is fully IFR FAA certified.

Based on its capability, the Genesys system is US Navy (NAVAIR) approved, the cockpit of choice on the TH-73 helicopter and in operation in the TH-119 training fleet. It is also being flown by other foreign militaries.

Cockpit Modernization For Today's & Tomorrow's Missions



Glass EFIS Upgrade - IDU-680 Displays

Lightest, most comprehensive, integrated Electronic Flight Instrument System enhances safety, reduces pilot workload, and increases mission flexibility. Features include:

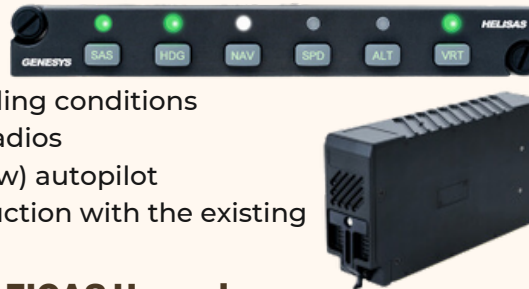
- Redundant ADAHRS attitude source (replaces legacy attitude sensors)
- Redundant GPS/SBAS receivers
- Dual NAV/COMM radios
- Integrated radio/audio management
- Mode S ADS-B compliant transponder
- Weather radar control and display
- Built-in support/interfaces for FLIR, Satcom, DF, HF, UHF, TACAN, Datalink, SELCAL, tactical radios, etc.



Autopilot Upgrade - GRC™ 3000

Delivers safety and workload reduction benefits with fully coupled IFR approved autopilot and stability augmentation in a compact lightweight package. Features include:

- Lightweight, weighs less than 30 pounds (14 kg)
- Dramatically reduced pilot workload
- Safer, more confident command, even under demanding conditions
- Autopilot fully-coupled to FMS, GPS, and navigation radios
- GRC 3000 is designed for three-axis (pitch, roll and yaw) autopilot configuration for IFR use. GRC 3000 can work in conjunction with the existing SAS system to add upper mode capability.



Nav/Comm Radio Upgrade - GDR

The Genesys Digital Radio (GDR) is a family of remote-mount, software-definable radios combining VOR/localizer/glideslope, marker beacon navigation and VHF communication with a UHF communication option in a single box. GDR lowers weight, increases reliability, reduces cost, and increases mission readiness.

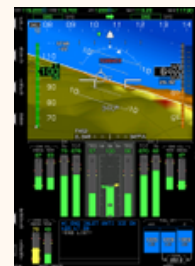
ADAHRS Only Upgrade

Replaces the legacy attitude source that poses reliability, obsolescence, and cost challenges for operators. An ADAHRS upgrade provides the necessary interface that drives the stability augmentation system and existing panel attitude indicators.

EICAS Upgrade

Provides customizable full engine indication and crew alerting system, replacing outdated gauges and annunciators. Features include:

- Color graphical presentation, reducing cockpit workload
- Enhances safety
- Warning and Caution messages are tailored to eliminate incorrect interpretation
- Exceedence log recording



Genesys Avionics Suite

The Genesys cockpit offers several key advantages over its competitor, the Garmin-5000. It is fully integrated into the UH-60 Series and offers a modular open system approach to rapidly integrating additional capability. In contrast, the Garmin is merely a federated system.

The Genesys cockpit is significantly less expensive and much more capable.

XPS replaces the obsolete fogs gyros and we offer a fully integrated FAA Certified Autopilot. The Garmin does not replace gyros and does not offer an autopilot.

Features

- 4 Fully Independent & Redundant Screens
- Digital MEMS Sensors, Replaces Electro-Mechanical Legacy Gyros
- 3D Synthetic Vision
- Integrated HTAWS Warning System
- Digital Avionics
- Seamless Integration into the Aircraft's Existing Systems
- Multi-Function Displays
- ADAHRS and GPS SBAS Data
- NVIS Compatible
- Search and Rescue Patterns
- STC Meets All IFR Regulations and is MIL-STD Certified
- VFR and IFR Helicopter Autopilot
- GDR Digital Radio Option
- Additional Upgrade Program Options Available

